BRUHAT BANGALORE MAHANAGARA PALIKE

Name of the Agency : **Technical Manager,** KRIDL, Bangalore.

Name of the Work : Improvements and Asphalting to Bloom Field Garden Roads in Ward No.10 (Doddabommasandra) Vidyaranyapura Sub Division, BBMP, Bangalore.

Estimate Cost :

QUALITY CONTROL REPORTS TO

ASST. EXECUTIVE ENGINEER
Vidyaranyapura Sub Division,
BBMP, Bangalore.

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QUALITY CONTROL REPORTS FOR

WET MIX MACADAM (WMM)

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Job No.: CTCE/BBMP/W.No.10/KRIDL/WMM/Gradation/2014-15

04.11.2014

GRADATION FOR WMM
MORTH TABLE-400-11

Client : **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

Agency : **Technical Manager,** KRIDL, Bangalore.

Name of Work : Improvements and Asphalting to Bloom Field Garden Roads in Ward No.10 (Doddabommasandra) Vidyaranyapura Sub Division, BBMP, Bangalore.

Reference : EE/BTP/KRIDL/W.O/676/2013-14 Dated: 05.03.2014

Date of Testing : 04.11.2014

Material : WMM

Sample Location : WMM Mix Plant

Oven Dry Wt (gm): **8805**

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Spec.Limits
53	0	0	0	100	100
45	325	325	3.7	96.3	95-100
22.4	2940	3265	37.1	62.9	60-80
11.2	1855	5120	58.1	41.9	40-60
4.75	1245	6365	72.3	27.7	25-40
2.36	685	7050	80.1	19.9	15-30
0.600	720	7770	88.2	11.8	8-22
0.075	515	8285	94.1	5.9	0-8

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Job No.: CTCE/BBMP/W.No.10/KRIDL/WMM/Gradation/2014-15

04.11.2014

GRADATION FOR WMM
MORTH TABLE-400-11

Client : **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

Agency : **Technical Manager,** KRIDL, Bangalore.

Name of Work : Improvements and Asphalting to Bloom Field Garden Roads in Ward No.10 (Doddabommasandra) Vidyaranyapura Sub Division, BBMP, Bangalore.

Reference : EE/BTP/KRIDL/W.O/676/2013-14 Dated: 05.03.2014

Date of Testing : 04.11.2014

Material : WMM

Sample Location : WMM Mix Plant

Oven Dry Wt (gm): **8340**

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Spec.Limits
53	0	0	0	100	100
45	265	265	3.2	96.8	95-100
22.4	2570	2835	34.0	66.0	60-80
11.2	1135	3970	47.6	52.4	40-60
4.75	1450	5420	65.0	35.0	25-40
2.36	935	6355	76.2	23.8	15-30
0.600	875	7230	86.7	13.3	8-22
0.075	740	7970	95.6	4.4	0-8

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04.11.2014

GRADATION FOR WMM
MORTH TABLE-400-11

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Agency : **Technical Manager,** KRIDL, Bangalore.

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Reference : EE/BTP/KRIDL/W.O/676/2013-14 Dated: 05.03.2014

Date of Testing : 04.11.2014

Material : WMM

Sample Location : WMM Mix Plant

Oven Dry Wt (gm): **8805**

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Spec.Limits
53	0	0	0	100	100
45	295	295	3.4	96.6	95-100
22.4	2840	3135	35.6	64.4	60-80
11.2	1755	4890	55.5	44.5	40-60
4.75	1235	6125	69.6	30.4	25-40
2.36	615	6740	76.5	23.5	15-30
0.600	785	7525	85.5	14.5	8-22
0.075	820	8345	94.8	5.2	0-8

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GRADATION FOR WMM
MORTH TABLE-400-11

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Reference : EE/BTP/KRIDL/W.O/676/2013-14 Dated: 05.03.2014

Date of Testing : 04.11.2014

Material : WMM

Sample Location : WMM Mix Plant

Oven Dry Wt (gm): **7665**

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Spec.Limits
53	0	0	0	100	100
45	260	260	3.4	96.6	95-100
22.4	2155	2415	31.5	68.5	60-80
11.2	1235	3650	47.6	52.4	40-60
4.75	1140	4790	62.5	37.5	25-40
2.36	965	5755	75.1	24.9	15-30
0.600	785	6540	85.3	14.7	8-22
0.075	855	7395	96.5	3.5	0-8

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04.11.2014

GRADATION FOR WMM
MORTH TABLE-400-11

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Agency : **Technical Manager,** KRIDL, Bangalore.

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Reference : EE/BTP/KRIDL/W.O/676/2013-14 Dated: 05.03.2014

Date of Testing : 04.11.2014

Material : WMM

Sample Location : WMM Mix Plant

Oven Dry Wt (gm): **8240**

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Spec.Limits
53	0	0	0	100	100
45	230	230	2.8	97.2	95-100
22.4	2565	2795	33.9	66.1	60-80
11.2	1340	4135	50.2	49.8	40-60
4.75	1455	5590	67.8	32.2	25-40
2.36	925	6515	79.1	20.9	15-30
0.600	715	7230	87.7	12.3	8-22
0.075	620	7850	95.3	4.7	0-8

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04.11.2014

GRADATION FOR WMM
MORTH TABLE-400-11

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Agency : **Technical Manager,** KRIDL, Bangalore.

Name of Work : Improvements and Asphalting to Bloom Field Garden Roads in Ward No.10 (Doddabommasandra) Vidyaranyapura Sub Division, BBMP, Bangalore.

Reference : EE/BTP/KRIDL/W.O/676/2013-14 Dated: 05.03.2014

Date of Testing : 04.11.2014

Material : WMM

Sample Location : WMM Mix Plant

Oven Dry Wt (gm): **8265**

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Spec.Limits
53	0	0	0	100	100
45	205	205	2.5	97.5	95-100
22.4	2545	2750	33.3	66.7	60-80
11.2	1380	4130	50.0	50.0	40-60
4.75	1425	5555	67.2	32.8	25-40
2.36	925	6480	78.4	21.6	15-30
0.600	740	7220	87.4	12.6	8-22
0.075	635	7855	95.0	5.0	0-8

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04.11.2014

Aggregate Impact Value

IS: 2386 Part IV

Client	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
Agency	**Technical Manager,** KRIDL, Bangalore.
Name of the Work	Improvements and Asphalting to Bloom Field Garden Roads in Ward No.10 (Doddabommasandra) Vidyaranyapura Sub Division, BBMP, Bangalore.
Reference	EE/BTP/KRIDL/W.O/676/2013-14 Dated: 05.03.2014
Source / Location	WMM Plant
Type of Mix	Wet Mix macadam
Date of Testing	04.11.2014

Sl No.	Details	Trial No.		Average
		1	2	
1	Total weight of aggregate sample filling the cylindrical measure = W_1 g	388	385	
2	Weight of agregate passing 2.36 mm sieve after the test = W_2 g	84	82	
3	Weight of aggregate retained 2.36 mm sieve after the test = W_3 g	304	303	
4	Aggregate Impact value = percent fines	21.65	21.30	
	100* (W_2/W_1)%			21.47

Comments:

→ Maximum allowable Aggregate Impact value for Wet mix Macadam is 30%

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Job No.: CTCE/BBMP/W.No.10/KRIDL/WMM/AIV/2014-15

04.11.2014

Aggregate Impact Value

IS: 2386 Part IV

Client	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
Agency	**Technical Manager,** KRIDL, Bangalore.
Name of the Work	Improvements and Asphalting to Bloom Field Garden Roads in Ward No.10 (Doddabommasandra) Vidyaranyapura Sub Division, BBMP, Bangalore.
Reference	EE/BTP/KRIDL/W.O/676/2013-14 Dated: 05.03.2014
Source / Location	WMM Plant
Type of Mix	Wet Mix macadam
Date of Testing	04.11.2014

Sl No.	Details	Trial No.		Average
		1	2	
1	Total weight of aggregate sample filling the cylindrical measure = W_1 g	388	386	
2	Weight of agregate passing 2.36 mm sieve after the test = W_2 g	87	85	
3	Weight of aggregate retained 2.36 mm sieve after the test = W_3 g	301	301	
4	Aggregate Impact value = percent fines	22.42	22.02	
	100* (W_2/W_1)%			22.22

Comments:

→ Maximum allowable Aggregate Impact value for Wet mix Macadam is 30%

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Aggregate Impact Value

IS: 2386 Part IV

Client	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
Agency	**Technical Manager,** KRIDL, Bangalore.
Name of the Work	Improvements and Asphalting to Bloom Field Garden Roads in Ward No.10 (Doddabommasandra) Vidyaranyapura Sub Division, BBMP, Bangalore.
Reference	EE/BTP/KRIDL/W.O/676/2013-14 Dated: 05.03.2014
Source / Location	WMM Plant
Type of Mix	Wet Mix macadam
Date of Testing	04.11.2014

Sl No.	Details	Trial No.		Average
		1	2	
1	Total weight of aggregate sample filling the cylindrical measure = W_1 g	381	384	
2	Weight of agregate passing 2.36 mm sieve after the test = W_2 g	88	86	
3	Weight of aggregate retained 2.36 mm sieve after the test = W_3 g	293	298	
4	Aggregate Impact value = percent fines	23.10	22.40	
	100* (W_2/W_1)%			22.75

Comments:

→ Maximum allowable Aggregate Impact value for Wet mix Macadam is 30%

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Job No.: CTCE/BBMP/W.No.10/KRIDL/WMM/S-T/2014-15 04.11.2014

DETERMINATION OF FLAKINESS INDEX & ELONGATION INDEX OF COARSE AGGREGATES

Client	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
Agency	**Technical Manager,** KRIDL, Bangalore.
Name of Work	Improvements and Asphalting to Bloom Field Garden Roads in Ward No.10 (Doddabommasandra) Vidyaranyapura Sub Division, BBMP, Bangalore.
Reference	EE/BTP/KRIDL/W.O/676/2013-14 Dated: 05.03.2014
Technical Reference	IS 2386(Part 1) 1963 (RA 2011)
Type of Mix	Wet Mix Macadam
Date of Testing	04.11.2014

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Result : Flakiness Index = **11.56%**

Elongation Index = **13.84%**

Result : Combined Flakiness & Elongation index 25.40%

Comments:

Maximum allowable Flakiness & Elongation Index for Wet Mix Macadam is 30%

Note:

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Client	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
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Technical Reference	IS 2386(Part 1) 1963 (RA 2011)
Type of Mix	Wet Mix Macadam
Date of Testing	04.11.2014

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Result : Flakiness Index = **12.85%**

Elongation Index = **13.47%**

Result : Combined Flakiness & Elongation index 26.32%

Comments:

Maximum allowable Flakiness & Elongation Index for Wet Mix Macadam is 30%

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Technical Reference	IS 2386(Part 1) 1963 (RA 2011)
Type of Mix	Wet Mix Macadam
Date of Testing	04.11.2014

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Result : Flakiness Index = **11.75%**

Elongation Index = **13.63%**

Result : Combined Flakiness & Elongation index 25.38%

Comments:

Maximum allowable Flakiness & Elongation Index for Wet Mix Macadam is 30%

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